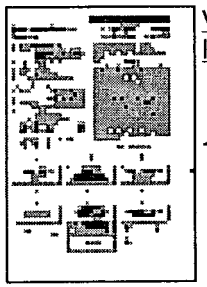
Title: **JP2002340216A2: SOLENOID VALVE DEVICE**



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Abstract:

PROBLEM TO BE SOLVED: To provide a small solenoid valve device having a long stroke of a movable core.

SOLUTION: A fixed core 12 has a housing part 13, an attracting part 14, and a thin part 19 for joining the housing part 13 and the attracting part 14, and is integrally formed. The attracting part 14 is positioned at one place in the reciprocating direction of a plunger 20 in the direction for separating a rubber member 23 from a valve seat 51 to the housing part 13. The magnetic path area of an outer peripheral part 15 increases toward one direction in the reciprocating direction. An outer peripheral surface of the outer peripheral part 15 is formed of two-stage tapered surfaces for

diametrally expanding toward one direction in the reciprocating direction. An increase rate of increasing an outer diameter of the outer peripheral part 15 toward one direction in the reciprocating direction discontinuously reduces toward one direction in the reciprocating direction. Since an increase rate of the magnetic path area of the outer peripheral part 15 opposed to the plunger 20 in the radial direction is restrained for moving to one direction in the reciprocating direction, reduction in magnetic force for attracting the plunger 20 to one direction in the reciprocating direction is restrained.

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